Index of Authors

AHRENS, P. & FRIIS, N. F. Identification of *Mycoplasma hyopneumoniae* with a DNA probe 249

AKAN, M. *see* DIKER, K. S.

ALLEN, M. J. *see* HUMPHREY, T. J.

ALVES, M. J., MARTINS, L. O. & SÁ-CORREIA, I. Temperature profiles and alginate synthesis in mucoid and non-mucoid variants of *Pseudomonas aeruginosa* 244

ARCHIBALD, A. R. *see* COXON, R. D. *also* GALLY, D.

BACKHURST, J. R., CHAALAL, O., HARKER, J. H., HANCOCK, I. C. & MELLSTROM, C. Culture of bacteria in an aerated, rectangular tank reactor 11

BAYLY, R. C. *see* JAIN, R. K.

BINGHAM, A. H. A. *see* ELVIN, S.

BOARD, R. G. *see* RADFORD, S. A.

BOLTON, F. J. *see* SMITH, P. J.

BOTTAZZI, V. *see* RENIERO, R.

BUSSE, M. *see* LOESSNER, M. J.

CAMPANINI, M. *see* QUINTAVALLA, S.

CAO, W-W. *see* WANG, R-F.

CAPALASH, N., GUPTA, K. G. & SHARMA, P. Effects of additives on the activity of *Bacillus* sp. β-xylanase 31

CEYSSENS, K. *see* DEVRIESE, L. A.

CHAALAL, O. *see* BACKHURST, J. R.

CHARNLEY, A. K. Microbial pathogens and insect pest control 149

CHART, H., THRELFALL, E. J. & ROWE, B. Virulence studies of *Salmonella enteritidis* phage types 188

COLLINS, M. D., RODRIGUES, U. M., PIGOTT, N. E. & FACKLAM, R. R. *Enterococcus dispar* sp. nov. a new *Enterococcus* species from human sources 95

COLLINS, M. D. *see* WILLIAMS, A. M.

CONNERTON, I. F., KAUR, J. S., ROGERS, S. & PARK, R. W. A. Isolation and characterization of a cryptic plasmid from mesophilic aeromonads: potential as a cloning vector 16

COXON, R. D., HARWOOD, C. R. & ARCHIBALD, A. R. Protein export during growth of *Bacillus subtilis*: the effect of extracellular protease deficiency 91

CUMMINGS, J. H. *see* MACFARLANE, G. T.

DAMOGLOU, A. P. *see* O'NEILL, K.

DE HAEN, C. *see* RENIERO, R.

DENHOLLANDER, L. C. *see* WONG, D. H.

DEVRIESE, L. A., CEYSSENS, K. & HAESEBROUCK, F. Characteristics of *Enterococcus cecorum* strains from the intestines of different animal species 137

DIKER, K. S., AKAN, M., HASCELIK, G. & YURDAKÖK, M. The bactericidal activity of tea against *Campylobacter jejuni* and *Campylobacter coli* 34

ELVIN, S. & BINGHAM, A. H. A. Electroporation-induced transformation of *Escherichia coli*: evaluation of a square waveform pulse 39

FACH, P., TRAP, D. & GUILLOU, J. P. Biotinylated probes to detect *Leptospira interrogans* on dot blot hybridization or by *in situ* hybridization 171

FACKLAM, R. R. *see* COLLINS, M. D.

FAITH, N. G. *see* LUCHANSKY, J. B.

FIALHO, A. M., MONTEIRO, G. A. & SÁ-CORREIA, I., Conjugal transfer of recombinant plasmids into gellan gum-producing and non-producing variants of *Pseudomonas elodea* ATCC 31461 85

FREEMAN, R., SISSON, P. R., LIGHTFOOT, N. F. & MCLAUGHLIN, J. Analysis of epidemic and sporadic strains of *Listeria monocytogenes* by pyrolysis mass spectrometry 133

FRIIS, N. F. *see* AHRENS, P.

FUCHS, R. S. & SIRVAS, S. Incidence of *Listeria monocytogenes* in an acidified fish product, *ceviche* 88

GALLY, D., HARWOOD, C. R. & ARCHIBALD, A. R. Diaminopimelic acid uptake by *Bacillus megaterium*: influence of growth conditions and other amino acids 54

GARRIDO-FERNANDEZ, A. *see* RUIZ-BARBA, J. L.

GAWLER, A. H. L. *see* HUMPHREY, T. J.

GAYNER, V. E. *see* SMITH, P. J.

GÉLINAS, P. & GOULET, J. Morphology of bakers' yeast and dissolved oxygen saturation during fed-batch growth 164

GÉLINAS, P., TOUPIN, C. J. & GOULET, J. Cell water permeability and cryotolerance of *Saccharomyces cerevisiae* 236

GHARBIA, S. E. & SHAH, H. N. Biochemical properties of *Fusobacterium naviforme* and phenotypically similar isolates 177

GIBSON, G. R. *see* MACFARLANE, G. T.

GOEPPL, S. *see* LOESSNER, M. J.

GOODEN, J. M. *see* RILEY, I. T.

GOULET, J. *see* GÉLINAS, P.

GUILLOU, J. P. *see* FACH, P.

GUPTA, K. G. *see* CAPALASH, N.
HAESEBROUCK, F. *see* DEVRIESE, L. A.
HALD, B. *see* PURWOKO, H. M.
HANCOCK, I. C. *see* BACKHURST, J. R.
HARKER, J. H. *see* BACKHURST, J. R.
HARWOOD, C. R. *see* COXON, R. D. *also* GALLY, D.
HASCELIK, G. *see* DIKER, K. S.
HATA, H. *see* SUZUKI, S.
HERD, T. M. *see* JONES, M. V.
HILLMAN, K., WILLIAMS, A. G. & LLOYD, D. Evaluation of matrices in the rumen simulation technique (RUSITEC) for the maintenance of ciliate protozoa 129
HINTON, M., MEAD, G. C. & IMPEY, C. S. Protection of chicks against environmental challenge with *Salmonella enteritidis* by 'competitive exclusion' and acid-treated feed 69
HUMPHREY, T. J., RICHARDSON, N. P., GAWLER, A. H. L. & ALLEN, M. J. Heat resistance of *Salmonella enteritidis* PT4: the influence of prior exposure to alkaline conditions 258
IMPEY, C. S. *see* HINTON, M.
IRVINE, H. L. & STEWART, C. S. Interactions between anaerobic cellulolytic bacteria and fungi in the presence of *Methanobrevibacter smithii* 62
ITOH, T. *see* TOBA, T.
JAIN, R. K., BAYLY, R. C. & SKURRAY, R. A. Specific deletion of a large segment of pRA500: a 3,5-xylenol degradative plasmid 216
JIMENEZ-DIAZ, R. *see* RUIZ-BARBA, J. L.
JOBLIN, K. N. & WILLIAMS, A. G. Effect of cocultivation of ruminal chytrid fungi with *Methanobrevibacter smithii* on lucerne stem degradation and extracellular fungal enzyme activities 121
JOBLIN, K. N. *see* WILLIAMS, A. G.
JOHNSON, M. D. *see* JONES, M. V.
JOHNSON, M. G. *see* WANG, R-F.
JONES, D. M. *see* SUTCLIFFE, E. M.
JONES, M. V., JOHNSON, M. D. & HERD, T. M. Sensitivity of yeast vegetative cells and ascospores to biocides and environmental stress 254
KAUR, J. S. *see* CONNERTON, I. F.
KINNEAR, J. E. *see* WONG, D. H.
LIGHTFOOT, N. F. *see* FREEMAN, R.
LLOYD, D. *see* HILLMAN, K.
LOESSNER, M. J., GOEPPL, S. & BUSSE, M. The phagovar variability of *Listeria* strains under the influence of virulent and temperate bacteriophages 192
LOESSNER, M. J., GOEPPL, S. & BUSSE, M. Comparative inducibility of bacteriophage in naturally lysogenic and lysogenized strains of *Listeria* spp. by u.v. light and Mitomycin C 196
LUCHANSKY, J. B. & FAITH, N. G. Generation of deletions in $pTV1_{ts}$ following transformation of *Staphylococcus aureus* protoplasts 46
LYNCH, J. M., WILSON, K. L., OUSLEY, M. A. & WHIPPS, J. M. Response of lettuce to *Trichoderma* treatment 59
MACFARLANE, G. T., GIBSON, G. R. & CUMMINGS, J. H. Extracellular and cell-associated glycosidase activities in different regions of the human large intestine 3
MARTINS, L. O. *see* ALVES, M. J.
MATSUI, Y., SUZUKI, S., SUZUKI, T. & TAKAMA, K. Phospholipid and fatty acid compositions of *Alteromonas putrefaciens* and *A. haloplanktis* 51
MCKAY, A. M. Cell-associated amylase activity in *Cytophaga johnsonae* 36
MCKAY, A. M. Extracellular β-galactosidase production during growth of filamentous fungi on polygalacturonic acid 75
MCLANDSBOROUGH, L. & TATINI, S. R. A 6 h microslide immunodiffusion assay for confirmed detection of staphylococcal enterotoxins 81
MCLAUGHLIN, J. *see* FREEMAN, R.
MEAD, G. C. *see* HINTON, M.
MELLSTROM, C. *see* BACKHURST, J. R.
MITCHELL, W. J. *see* SLAUGHTER, J. C.
MONTEIRO, G. A. *see* FIALHO, A. M.
MORELLI, L. *see* RENIERO, R.
MOSSEL, D. A. A. *see* VAN NETTEN, P.
NORTH, R. The investigation of food poisoning 145
NYCHAS, G. J. E. *see* RADFORD, S. A.
O'NEILL, K., DAMOGLOU, A. P. & PATTERSON, M. F. Sensitivity of some common grain fungi to irradiation on grain and in phosphate-buffered saline 180
OUSLEY, M. A. *see* LYNCH, J. M.
PALMER, S. R. The investigation of food poisoning 146
PARK, R. W. A. *see* CONNERTON, I. F.
PATTERSON, M. F. *see* O'NEILL, K.
PEARSON, A. D. *see* SUTCLIFFE, E. M.
PETTIPHER, G. L. Preliminary evaluation of flow

cytometry for the detection of yeasts in soft drinks 109
PIGOTT, N. E. *see* COLLINS, M. D.
PURWOKO, H. M., HALD, B. & WOLSTRUP, J. Aflatoxin content and number of fungi in poultry feedstuffs from Indonesia 212
QUINTAVALLA, S. & CAMPANINI, M. Effect of rising temperature on the heat resistance of *Listeria monocytogenes* in meat emulsion 184
RADFORD, S. A., TASSOU, C. C., NYCHAS, G. J. E. & BOARD, R. G. The influence of different oils on the death rate of *Salmonella enteritidis* in homemade mayonnaise 125
RICHARDSON, N. P. *see* HUMPHREY, T. J.
RILEY, I. T. & GOODEN, J. M. Bacteriophage specific for the *Clavibacter* sp. associated with annual ryegrass toxicity 158
ROBINSON, J. P. *see* SHANKER, R.
RODRIGUES, U. M. *see* COLLINS, M. D.
ROGERS, S. *see* CONNERTON, I. F.
ROWE, B. *see* CHART, H.
ROY, D. Salt stress on growth and acid production of *Lactobacillus helveticus* strain milano 207
RUIZ-BARBA, J. L., GARRIDO-FERNANDEZ, A. & JIMENEZ-DIAZ, R. Bactericidal action of oleuropein extracted from green olives against *Lactobacillus plantarum* 65
RUNHAM, C.F. *see* WONG, D. H.
RUSSELL, A. D. Injured bacteria: occurrence and possible significance 1
SÁ-CORREIA, I. *see* ALVES, M. J. *also* FIALHO, A. M.
SCHAUMANN, J. B. & TAGG, J. R. Development and application of a simple filter paper imprinting technique for the detection and enumeration of colonies of ureolytic micro-organisms 117
SHAH, H. N. *see* GHARBIA, S. E.
SHANKER, R. & ROBINSON, J. P. Anaerobic degradation of dalapon in waterlogged soil and river sediment 8
SHARMA, P. *see* CAPALASH, N.
SINGH, A. Lipid production by a cellulolytic strain of *Aspergillus niger* 200
SIRVAS, S. *see* FUCHS, R. S.
SISSON, P. R. *see* FREEMAN, R.
SKURRAY, R. A. *see* JAIN, R. K.
SLAUGHTER, J. C., SMITH, J. P. & MITCHELL, W. J. Glucose transport throughout fermentation by *Saccharomyces cerevisiae* NCYC 1108 221
SMITH, J. P. *see* SLAUGHTER, J. C.
SMITH, P. J., BOLTON, F. J. & GAYNER, V. E. Reproducibility of electrical conductance assay results for the detection of salmonella 78
STEWART, C. S. *see* IRVINE, H. L.
STOTT, R. F. & WRIGHT, S. J. L. Sewage treatment with plants 99
SUTCLIFFE, E. M., JONES, D. M. & PEARSON, A. D. Latex agglutination for the detection of *Campylobacter* species in water 72
SUZUKI, S., HATA, H. & TAKAMA, K. Ornithine decarboxylase activities of a *Shewanella putrefaciens* which produces only diamines 113
SUZUKI, S. *see* MATSUI, Y.
SUZUKI, T. *see* MATSUI, Y.
TAGG, J. R. *see* SCHAUMANN, J. B.
TAKAMA, K. *see* MATSUI, Y. *also* SUZUKI, S.
TASSOU, C. C. *see* RADFORD, S. A.
TATINI, S. R. *see* MCLANDSBOROUGH, L.
THRELFALL, E. J. *see* CHART, H.
TOBA, T., YOSHIOKA, E. & ITOH, T. Lacticin, a bacteriocin produced by *Lactobacillus delbrueckii* subsp. lactis 43
TOBA, T., YOSHIOKA, E. & ITOH, T. Acidophilucin A, a new heat-labile bacteriocin produced by *Lactobacillus acidophilus* LAPT 1060 106
TOBA, T., YOSHIOKA, E. & ITOH, T. Potential of *Lactobacillus gasseri* isolated from infant faeces to produce bacteriocin 228
TOUPIN, C. J. *see* GÉLINAS, P.
TRAP, D. *see* FACH, P.
VAN GAAL, B. *see* VAN NETTEN, P.
VAN NETTEN, P., VAN GAAL, B. & MOSSEL, D. A. A. Selection, differentiation and counting of haemolytic *Listeria* spp. on PALCAM medium 20
WANG, R-F., CAO, W-W. & JOHNSON, M. G. Dried gel hybridization in place of Southern hybridization for detection of *L. monocytogenes* DNA fragments 224
WHIPPS, J. M. *see* LYNCH, J. M.
WILLIAMS, A. G., WITHERS, S. E. & JOBLIN, K. N. Xylanolysis by cocultures of the rumen fungus *Neocallimastix frontalis* and ruminal bacteria 232
WILLIAMS, A. G. *see* HILLMAN, K. *also* JOBLIN, K. N.
WILLIAMS, A. M. & COLLINS, M. D. DNA fingerprinting of *Streptococcus uberis* based on polymorphism of DNA encoding rRNA 23
WILSON, K. L. *see* LYNCH, J. M.

WITHERS, S. E. *see* WILLIAMS, A. G.
WOLSTRUP, J. *see* PURWOKO, H. M.
WONG, D. H., KINNEAR, J. E., RUNHAM, C. F. & DENHOLLANDER, L. C. A preliminary report on a bacteriological assay for compound 1080 (sodium monofluoroacetate) 161
WRIGHT, S. J. L. *see* STOTT, R. F.
YOSHIOKA, E. *see* TOBA, T.
YURDAKÖK, M. *see* DIKER, K. S.
ZAHRAN, A. S. *see* ZAYED, G.
ZAYED, G. & ZAHRAN, A. S. Lactic acid production from salt whey using free and agar immobilized cells 241

Bacillus β-xylanase activity (CAPALASH, GUPTA & SHARMA) 31
Bacterial growth in an aerated tank (BACKHURST, CHAALAL, HARKER, HANCOCK & MELLSTROM) 11
Bactericidal activity of tea (DIKER, AKAN, HASCELIK & YURDAKÖK) 34
Bacteriocin from *Lactobacillus acidophilus* (TOBA, YOSHIOKA & ITOH) 106
Bacteriocin from *Lactobacillus gasseri* (TOBA, YOSHIOKA & ITOH) 228
Bacteriological assay for compound 1080 (WONG, KINNEAR, RUNHAM & DENHOLLANDER) 161
Bacteriophage modified phagovars of listeria (LOESSNER, GOEPPL & BUSSE) 192
Bakers' yeast and oxygen (GÉLINAS & GOULET) 164
Chick protection against salmonellas (HINTON, MEAD & IMPEY) 69
Clavibacter bacteriophage (RILEY & GOODEN) 158
Cloning vector plasmid in *Aeromonas* (CONNERTON, KAUR, ROGERS & PARK) 16
Colonic glycosidase activities (MACFARLANE, GIBSON & CUMMINGS) 3
Cryotolerance of bakers' yeast (GÉLINAS, TOUPIN & GOULET) 236
Culture of protozoa in RUSITEC (HILLMAN, WILLIAMS & LLOYD) 129
Cytophaga johnsonae amylase (MCKAY) 36
Dalapon degradation (SHANKER & ROBINSON) 8
Diaminopimelic acid uptake (GALLY, HARWOOD & ARCHIBALD) 54
DNA probe for *Mycoplasma hyopneumoniae* (AHRENS & FRIIS) 249
Dried gel DNA hybridization (WANG, CAO & JOHNSON) 224
Electrical conductance assay (SMITH, BOLTON & GAYNER) 78
Electroporation of *Escherichia coli* (ELVIN & BINGHAM) 39
Enterococcus cecorum (DEVRIESE, CEYSSENS & HAESEBROUCK) 137
Enterococcus dispar sp. nov. (COLLINS, RODRIGUES, PIGOTT & FACKLAM) 95
Fatty acids of *Alteromonas* spp. (MATSUI, SUZUKI, SUZUKI & TAKAMA) 51
Food poisoning investigations (NORTH) 145
Food poisoning investigations (PALMER) 146
Fungal β-galactosidases (MCKAY) 75
Fusobacterium naviforme heterogeneity (GHARBIA & SHAH) 177
Glucose transport in *Saccharomyces cerevisiae* (SLAUGHTER, SMITH & MITCHELL) 221
Haemolytic *Listeria* (VAN NETTEN, VAN GAAL & MOSSEL) 20
Heat resistance and *Salmonella enteritidis* (HUMPHREY, RICHARDSON, GAWLER & ALLEN) 258
Heat resistance of *Listeria monocytogenes* (QUINTAVALLA & CAMPANINI) 184
Injured bacteria (RUSSELL) 1
Irradiation sensitivity of fungi (O'NEILL, DAMOGLOU & PATTERSON) 180
Lactic acid production (ZAYED & ZAHRAN) 241
Lactobacillus delbrueckii subsp. *lactis* bacteriocin (TOBA, YOSHIOKA & ITOH) 43
Latex agglutination for *Campylobacter jejuni* (SUTCLIFFE, JONES & PEARSON) 72
Leptospira DNA probes (FACH, TRAP & GUILLOU) 171
Lettuce and *Trichoderma* (LYNCH, WILSON, OUSLEY & WHIPPS) 59
Lipid production by *Aspergillus niger* (SINGH) 200
Listeria monocytogenes in *ceviche* (FUCHS & SIRVAS) 88
Lucerne fermentation by rumen fungi (JOBLIN & WILLIAMS) 121
Microbial pathogens and insect pest control (CHARNLEY) 149
Microslide assay for staphylococcal enterotoxins (MCLANDSBOROUGH & TATINI) 81
Oils and *Salmonella* (RADFORD, TASSOU, NYCHAS & BOARD) 125
Oleuropein (RUIZ-BARBA, GARRIDO-FERNANDEZ & JIMENEZ-DIAZ) 65
Ornithine decarboxylase of *Shewanella putrefaciens* (SUZUKI, HATA & TAKAMA) 113
Plasmid conjugal transfer into *Pseudomonas elodea* (FIALHO, MONTEIRO & SÁ-CORREIA) 85
Poultry feedstuffs (PURWOKO, HALD & WOLSTRUP) 212
Prophage induction in *Listeria* spp. (LOESSNER, GOEPPL & BUSSE) 196
Protein export from *Bacillus subtilis* (COXON, HARWOOD & ARCHIBALD) 91
Pyrolysis spectrometry of listeria (FREEMAN, SISSON, LIGHTFOOT & MCLAUCHLIN) 133

Rumen fungi and bacteria (IRVINE & STEWART) 62
Salmonella enteritidis virulence (CHART, THRELFALL & ROWE) 188
Salt stress (ROY) 207
Sewage treatment with plants (STOTT & WRIGHT) 99
Staphylococcus aureus protoplast transformation (LUCHANSKY & FAITH) 46
Streptococcus uberis (WILLIAMS & COLLINS) 23
Temperature profiles of *Pseudomonas aeruginosa* (ALVES, MARTINS & SÁ-CORREIA) 244
Ureolytic micro-organisms (SCHAUMANN & TAGG) 117
Xylanolysis in cocultures (WILLIAMS, WITHERS & JOBLIN) 232
3,5-Xylenol degradative plasmid (JAIN, BAYLY & SKURRAY) 216
Yeast biocide sensitivity (JONES, JOHNSON & HERD) 254
Yeasts in soft drinks (PETTIPHER) 109